BLAUPUNKT

AUTORADIO
T3/F4 ASB EU

T-Line 3 CR	T-Line 3 CD	Funline 4
Ravenna C32 7 642 115 310 **Dublin C32** 7 642 120 310 **Boston C32** 7 642 125 510 **Louisiana DJ32** 7 642 121 310/9 **Minnesota DJ32** 7 642 141 310/9 **Florida DJ32** 7 642 166 310/9	**Kiel CD32** 7 642 171 310 **Porto CD32** 7 642 172 310 **Alicante CD32** 7 642 174 310 **San Remo CD32** 7 642 176 310 **Santa Cruz CD32** 7 642 178 310	**Bologna C52** 7 642 210 310 **Carolina DJ52** 7 642 410 310/9 **Modena CD52** 7 642 260 310 **Valencia CD52** 7 642 262 310

8 622 403 462 BN 02/03

CLASS 1
LASER PRODUCT



UNSICHTBARE LASERSTRAHLUNG
NICHT DEM STRAHL AUSSETZEN
LASER CLASS 3B



• Serviceanleitung / • Service Manual
Abgleich und Programmierungen nur mit Softwaretool (ComServer) möglich
All alignment and programming steps can only be carried out with the ComServer software tool.

(D) VORSICHT!

Die CD-Geräte beinhalten eine Laserkomponente! Im Servicefall bitte nachfolgende Hinweise beachten:
- Das Gerät arbeitet mit einem unsichtbaren Laserstrahl.
- Bei geöffnetem Gerät tritt im Bereich des Plattenfaches Laserstrahlung aus.
- Nicht in den Strahl blicken.
- Unbeteiligte Personen vom Arbeitsplatz fernhalten.
- Der Betrachtungsabstand darf 13 cm nicht unterschreiten.
- Kann dies nicht eingehalten werden, muss eine geeignete Laserschutzbrille getragen werden.

(GB) CAUTION!

The CD units are equipped with a laser component! For servicing make sure to observe the following instructions:
- The unit operates with invisible laser beams.
- When the cover is removed, invisible laser beams are emitted near the disc compartment.
- Avoid direct eye contact with these beams.
- Keep unauthorised persons away from the workbench.
- The viewing distance should not be less than 13 cm.
- If this distance cannot be kept, use suitable laser safety goggles.

Main Feature list Funline4

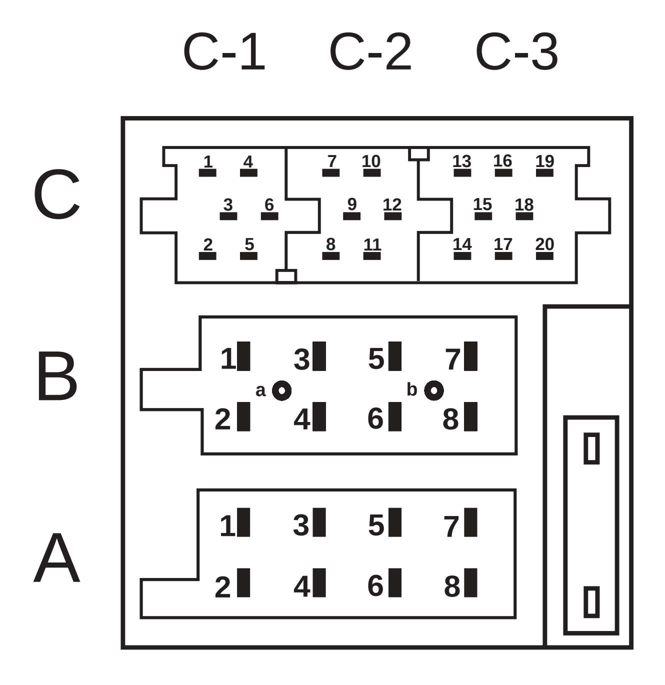
Features	Modena CD52	Valencia CD52	Bologna C52 Carolina DJ52
FM-Preset	2x6	2x6	2x6
MW-Preset	1x6	1x6	1x6
LW-Preset	1x6	1x6	1x6
FMT	1x6	1x6	1x6
HICUT	√	√	√
lo/dx	3/3	3/3	3/3
Mechanism CC			TN708
Dolby B			√
Metal			√
S-CPS			√
Repeat			√
Radio Monitor			√
Mechanism CD	BP4R/3	BP4R/3	
Track Mix	√	√	
Track Repeat	√	√	
Track Scan	√	√	
Mute	√	√	√
X-Bass	3 steps	3 steps	3 steps
Preamp	4 x 2V	4 x 2V	4 x 2V
Source Tone Memory	√	√	√
Telephone Input	√	√	√
AUX IN	√	√	√
Radio Mute	√	√	√
Display	negative	negative	negative
Flip Panel	√	√	√
DMS	ASCI	ASCI	ASCI
Dimmer	√	√	√
IR RC08	optional	optional	optional
Peak Level Meter	√	√	√
Clock	√	√	√
Release Panel	√	√	√
Running Text	√	√	√
ETUI	√	√	√
CDC-A08; IDC-A09	ASCI	ASCI	ASCI

Main Feature list T-Line3

Features	Dublin C32 Lousiana DJ32	Boston C32 (blue)	Ravenna C32 Florida DJ32	Minnesota DJ32	Kiel CD32	Porto CD32	Alicante CD32 (blue)	San Remo CD32	Santa Cruz Edition CD32
FM-Preset	2x6	2x6	2x6	2x6	2x6	2x6	2x6	2x6	2x6
MW-Preset	1x6	1x6	1x6	1x6		1x6	1x6	1x6	1x6
LW-Preset	1x6	1x6	1x6	1x6		1x6	1x6	1x6	1x6
FMT	1x6	1x6	1x6	1x6	1x6	1x6	1x6	1x6	1x6
HICUT	√	√	√	√	√	√	√	√	√
lo/dx	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3
Mechanism CC	ADC 1400	ADC 1400	ADC 1400	TN708					
Dolby	-	-	-	B					
Metal	-	-	-	√					
S-CPS	-	-	-	√					
Repeat	-	-	-	√					
Mechanism CD					BP4-R	BP4-R	BP4-R	BP4-R	BP4-R
Track Mix					√	√	√	√	√
Track Repeat					√	√	√	√	√
Track Scan					√	√	√	√	√
X-Bass	3 steps	3 steps	3 steps	3 steps	3 steps	3 steps	3 steps	3 steps	3 steps
Preamp	4 x 2V	4 x 2V	4 x 2V	4 x 2V	4 x 2V	4 x 2V	4 x 2V	4 x 2V	4 x 2V
DMS, CDC-A08; IDC-A09	ASCI	ASCI	ASCI	ASCI	ASCI	ASCI	ASCI	ASCI	ASCI
AUX IN	√	√	√	√	√	√	√	√	√
Line Out	√	√	√	√	√	√	√	√	√
Tel/Nav In									√
Radio Mute	√	√	√	√	√	√	√	√	√
IR Remote Control RC08	optional	optional	optional	optional	optional	optional	optional	optional	optional
Peak Level Meter	√	√	√	√	√	√	√	√	√
Clock manual 12/24 hours	√	√	√	√	√	√	√	√	√
Facia colour	black	black	black	black	black	black	black	black	titanium
Night Design	amber	red	amber	red	amber	amber	red	red	red
Iso Connector 36 pins	√	√	√	√	√	√	√	√	√
Release Panel	√	√	√	√	√	√	√	√	√

(D) Belegung des Anschlußkästchens

(GB) Pin assignment of quickfit connector



A		B	
1	NC	1	Speaker Out (RR +) 4Ω
2	Telephone mute <2volts = active; open = not active	2	Speaker Out (RR -) 4Ω
3	NC	3	Speaker Out (RF +) 4Ω
4	Permanent plus (KL 30); 10 A	4	Speaker Out (RF-) 4Ω
5	Automatic antenna	5	Speaker Out (LF +) 4Ω
6	Illumination, active high (3 - 12 volts)	6	Speaker Out (LF-) 4Ω
7	Ignition plus, (KL 15) <2.5volts = Ign.off; >7volts = Ign.on	7	Speaker Out (LR +) 4Ω
8	Ground	8	Speaker Out (LR-) 4Ω
a	MAUS-BUS-OUT (TXD) <0.5volts = logic 0; >3.5volts = logic 1		
b	MAUS-BUS-IN (RXD) <1volt = logic 0; >3.5volts = logic 1		

(+) Nur Funline 4 Geräte / (+) only Funline 4 units
(*) Nur Funline 4 Geräte und Santa Cruz / (*) only Funline 4 units and Santa Cruz

C					
	C1		**C2**		**C3**
1	Line out, 3V/10kΩ (LR)	**(*)7**	**Tel.-/Navi. AF In 10V/560Ω**	**13**	CD-Changer ASCI IN / **(+)TMC-Out** <1volt = logic 0; >3.5volts = logic 1
2	Line out, 3V/10kΩ (RR)	**(*)8**	**Tel.-/Navi. AF In 10V/560Ω**	**14**	CD-Changer ASCI OUT / **(+)TMC-Out** <0.5volt = logic 0; >3.5volts = logic 1
3	Line out ground	9	NC	15	CDC permanent plus (bloc A / pin 4)
4	Line out out, 3V/10kΩ (LF)	10	+12 V switched	16	+12 V switched
5	Line out out, 3V/10kΩ (RF)	11	Remote control PWM <1volt = logic 0; >3.5volts = logic 1	17	CD-Changer I^{2}C-Bus Masse / Gnd.
6	+12 V switched	12	Remote control Ground	18	Aux Ground
				19	Aux input 2V/6kΩ (L)
				20	Aux input 2V/6kΩ (R)

IG für A/Pin5; C1/Pin6; C2/Pin10 + C3/P = **300 mA.**

IG for A/Pin5; C1/Pin6; C2/Pin10 + C3/P = **300 mA.**

(D) Abgleichhinweise

Der Abgleich erfolgt nur noch elektronisch über den PC (ComServer). Es dürfen keine Filter abgeglichen werden. Nach dem Tausch eines Filters, muss der Abgleich über den PC erfolgen.

Wellenbereich:

FM = 87,5 MHz - 108,0 MHz
(100 kHz automatische Suchlaufschritte)
(50 kHz manuelle Suchlaufschritte)

MW = 531 kHz - 1602 kHz
(9 kHz automatische Suchlaufschritte)
(9 kHz manuelle Suchlaufschritte)

LW = 153 kHz - 279 kHz
(9 kHz automatische Suchlaufschritte)
(1 kHz manuelle Suchlaufschritte)

Vorbereitende Arbeiten

Bevor Sie den elektrischen Abgleich durchführen, müssen Sie folgende Vorbereitungen treffen:

Höhen - Einstellung 0
Bass - Einstellung 0
Fader - Einstellung 0
Balance - Einstellung 0
HICUT (Menü, nur Funline 4) 0
X-Bass - Einstellung (Menü) .... OFF

Lautsprecheranschluß

Der Lautsprecherausgang muß mit 4 Ω abgeschlossen sein.

Demomode

Demomode aktivieren

1. Schalten Sie das Autoradio aus.
2. Betätigen Sie die Tasten **1** + **6** gleichzeitig und halten Sie die Tasten gedrückt.
3. Schalten Sie das Gerät ein und halten Sie die Tasten noch für ca. 1 Sekunde gedrückt.

Nach diesem Schritt erscheint im Display nach "BLAUPUNKT" der Schriftzug "**DEMO**".

Demomode deaktivieren

Sie verlassen den Servicemode durch Ausschalten des Autoradios. Wiederholen Sie bitte den Schritt 1-3 um den Demomode zu verlassen.

Software Version Hauptprozessor und Kappenprozessor

Testmode aktivieren

1. Schalten Sie das Autoradio aus.
2. Betätigen Sie die Tasten **1** + **2** gleichzeitig und halten Sie die Tasten gedrückt.
3. Schalten Sie das Gerät ein und halten Sie die Tasten noch für ca. 1 Sekunde gedrückt.

Das Autoradiodisplay zeigt 8 Zeichen an.
Die 4 linken Zeichen zeigen den Softwarestand des Hauptprozessors an und die 4 rechten Zeichen zeigen den Softwarestand des Kappen- Prozessors an.

Testmode deaktivieren

Sie verlassen den Service Mode durch Ausschalten des Autoradios.

(GB) Notes on alignment

The alignment is always done electronically using a PC (ComServer). Do not align any filters. If a filter has been replaced, align the unit with the PC.

Waveband:

FM = 87.5 MHz - 108.0 MHz
(100 kHz automatic search steps)
(50 kHz manual search steps)

MW = 531 kHz - 1602 kHz
(9 kHz automatic search steps)
(9 kHz manual search steps)

LW = 153 kHz - 279 kHz
(9 kHz automatic search steps)
(1 kHz manual search steps)

Preparatory steps

Observe the following preparations before performing the electrical alignment:

Treble adjustment 0
Bass adjustment 0
Fader adjustment 0
Balance adjustment 0
HICUT (menu, only Funline 4) 0
X-Bass adjustment (DSC menu) .... OFF

Loudspeaker connections

The loudspeaker output must be terminated with 4 Ω.

Demo mode

Activating the Demo mode

1. Switch the unit off.
2. Press the push-buttons **1** + **6** simultaneously and hold them depressed.
3. Switch the unit back on and hold on to the buttons for approximately one more second.

Following this step, the display will show the wording “BLAUPUNKT” followed by “**DEMO**”.

Deactivating the Demo mode

You can quit the service mode by switching the radio off.
To quit the demo mode, repeat step 1-3.

Software version main processor and panel prozessor

Activating the test mode

1. Switch the unit off.
2. Press the push-buttons **1** + **2** simultaneously and hold them depressed.
3. Switch the unit back on and hold on to the buttons for approximately one more second.

The car radio display shows 8 characters.
The left 4 characters indicate the software version of the main processor, the right 4 characters indicate the software version of the panel processor.

To exit the test mode

You can quit the service mode by switching the radio off.



AUTORADIO

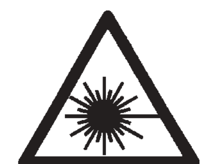
D/EU
Funline 4 / T-Line 3

Modena CD52 7 642 260 310	**Alicante CD32** 7 642 174 310	**Dublin C32** 7 642 120 310
Valencia CD52 7 642 262 310	**Porto CD32** 7 642 172 310	**Boston C32** 7 642 125 310
Bologna C52 7 642 210 310	**Kiel CD32** 7 642 171 310	**Ravenna C32** 7 642 115 310
Carolina DJ52 7 642 410 319	**San Remo CD32** 7 642 176 310	**Louisiana DJ32** 7 642 121 319
	Santa Cruz CD32 7 642 178 310	**Florida DJ32** 7 642 166 319
		Minnesota DJ32 7 642 141 319

8 622 403 366 BN-ST 04/03

Schaltbild • Circuit diagram

CLASS 1
LASER PRODUCT



UNSICHTBARE LASERSTRAHLUNG
NICHT DEM STRAHL AUSSETZEN
LASERKLASSE 3B

(D) VORSICHT!

Die Geräte beinhalten eine Laserkomponente! Im Servicefall bitte nachfolgende Hinweise beachten:

- Das Gerät arbeitet mit unsichtbarem Laserstrahl.
- Bei geöffnetem Gerät tritt im Bereich des Plattenfaches Laserstrahlung aus.
- Nicht in den Strahl blicken.
- Unbeteiligte Personen vom Arbeitsplatz fernhalten.
- Der Betrachtungsabstand darf 13 cm nicht unterschreiten.
- Kann dies nicht eingehalten werden, muß eine geeignete Laserschutzbrille getragen werden.

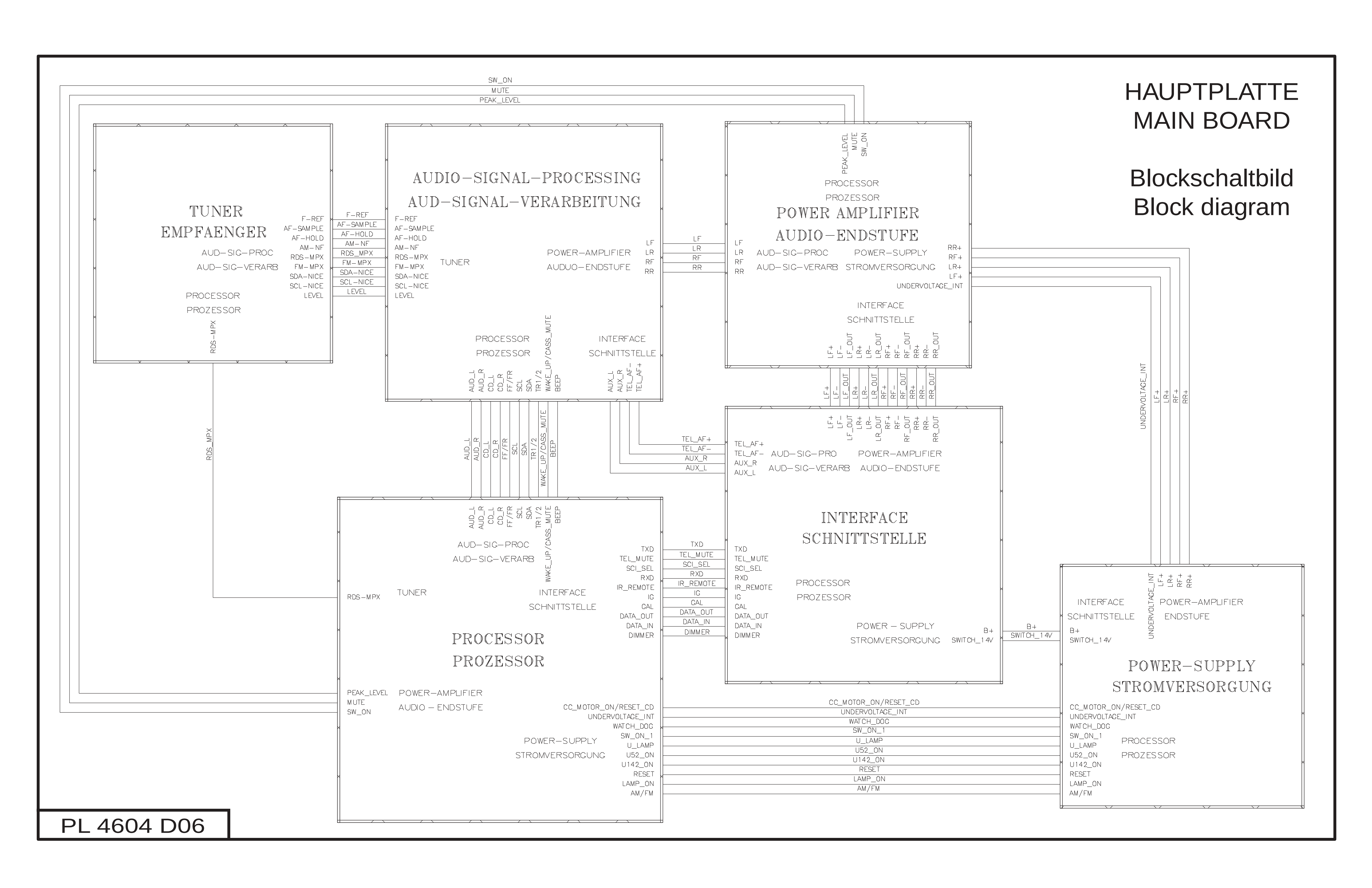
(GB) CAUTION!

The CD units are equipped with a laser component! For servicing make sure to observe the following instructions:

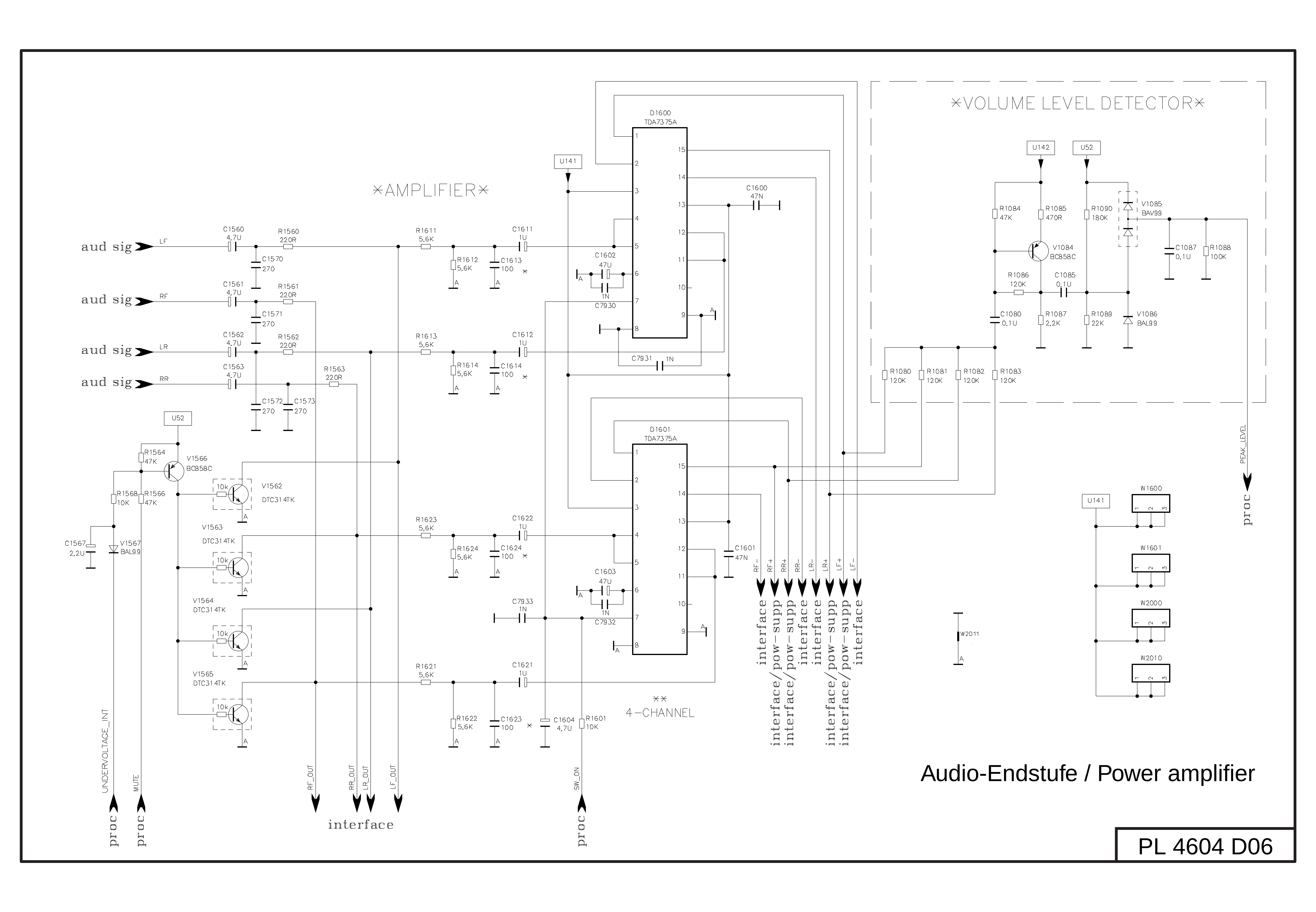
- The unit operates with invisible laser beams.
- When the cover is removed, invisible laser beams are emitted near the disc compartment.
- Avoid direct eye contact with these beams.
- Keep unauthorised persons away from the workbench.
- The viewing distance should not be less than 13 cm.
- If this distance cannot be kept, use suitable laser safety goggles.

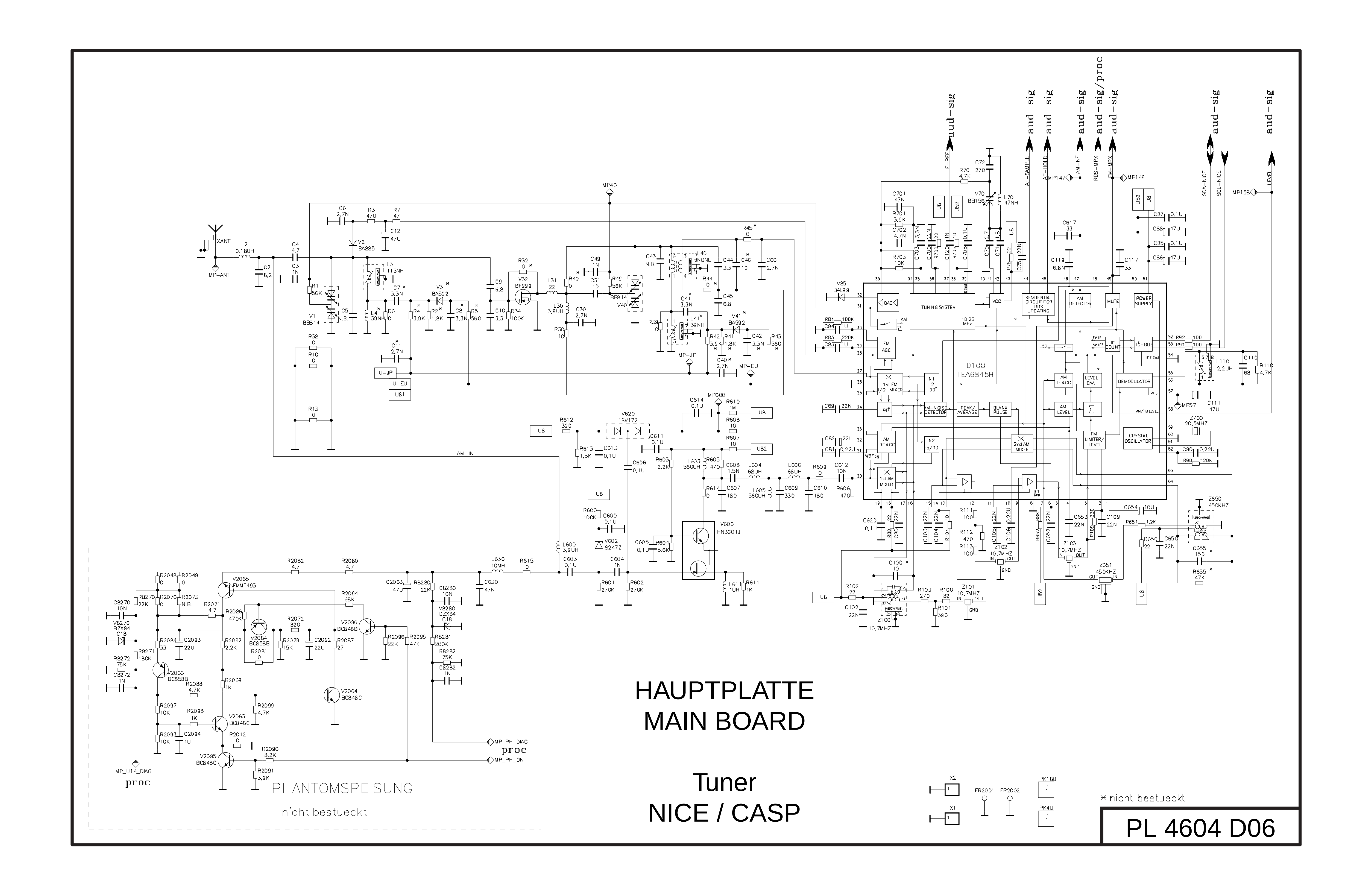
REMARK : * = "Section/Component In Use"

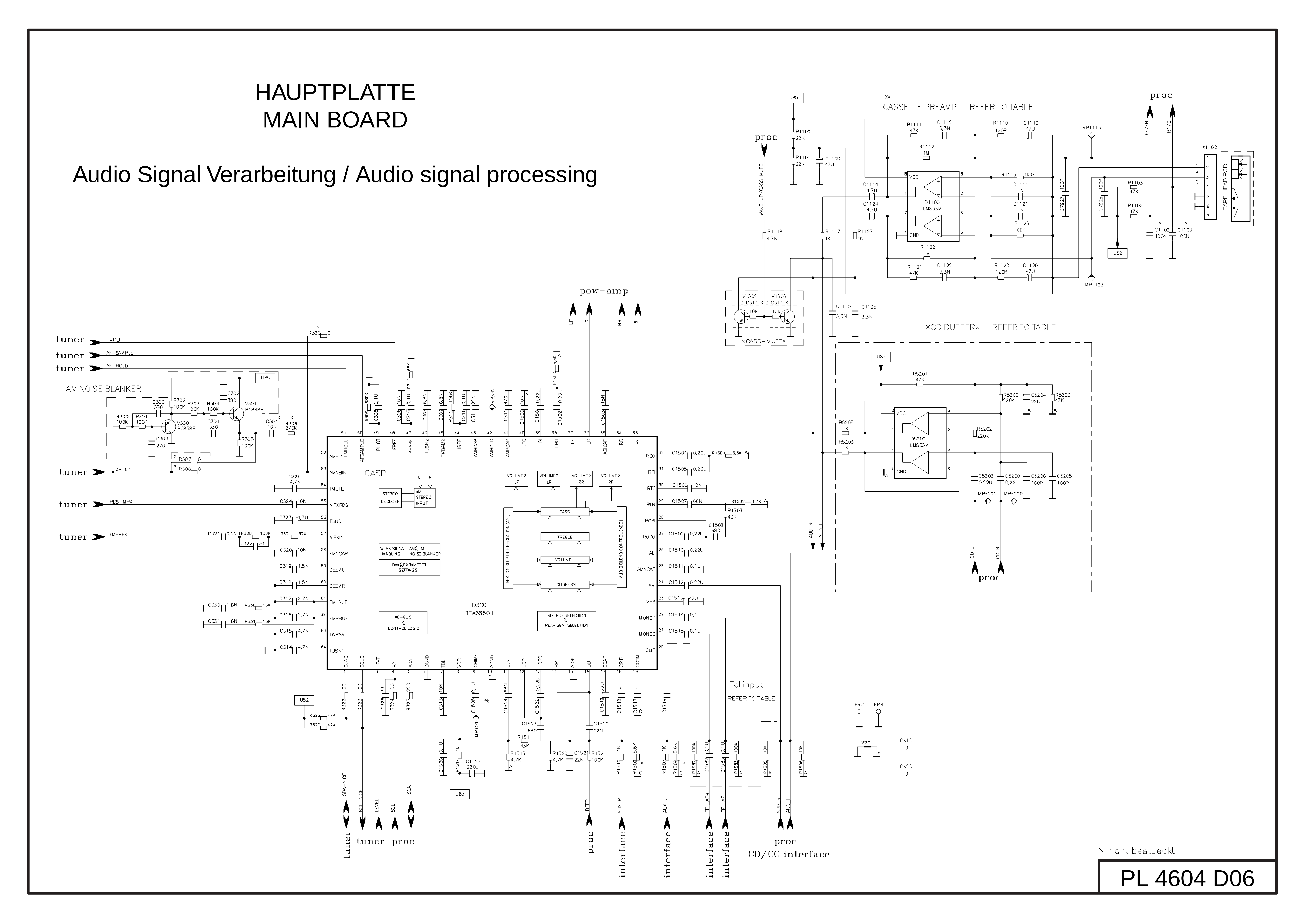
	T - LINE 3					FUNLINE 4	
	Boston C32 Dublin C32 Ravenna C32 Louisiana DJ32 Florida DJ32	Minnesota DJ32	Alicante CD32 Porto CD32 San Remo CD32	Kiel CD32	Santa Cruz CD32	Bologna C52 Carolina DJ52	Modena CD52 Valencia CD52
AM	X	X	X		X	X	X
CASSETTE PREAMP	X						
CASS–MUTE	X						
TN708 INTERFACE		X				X	
CD BUFFER			X	X	X		X
S800						X	X
H1091,R1091 & V1091						X	X
DIMMER						X	X
D5300	BC369	BC369	LM317T	LM317T	LM317T	BC369	LM317T
V2010	BC369	BC369	BD436	BD436	BD436	BC369	BD436
TEL input		X			X	X	X
R5302/R5303			X	X	X		X
R1300	X	X				X	
R5304	3,3K	3,3K	470R	470R	470R	3,3K	470R
R5305	3,3K	3,3K				3,3K	
R5306			X	X	X		X
R5307			X	X	X		X
R1304	68K	68K	10R	10R	10R	68K	10R
R1305	X	X				X	
R1301/R1302/R1303	X						
X1300	X						
R5207/5208/5209			X	X	X		X
L5200/X5200			X	X	X		X
C304/R306/R307/R326	X	X	X		X	X	X
D5301/C840			X	X	X		X
R840/R841	X	X				X	
C2040	47uF	47uF	2200uF	2200uF	2200uF	47uF	2200uF
R1505/R1506	OPEN	10K	10K	10K	10K	10K	10K
R2036..... R2040			X	X	X		X
R2015/R2017/V2022	X	X	X		X	X	X

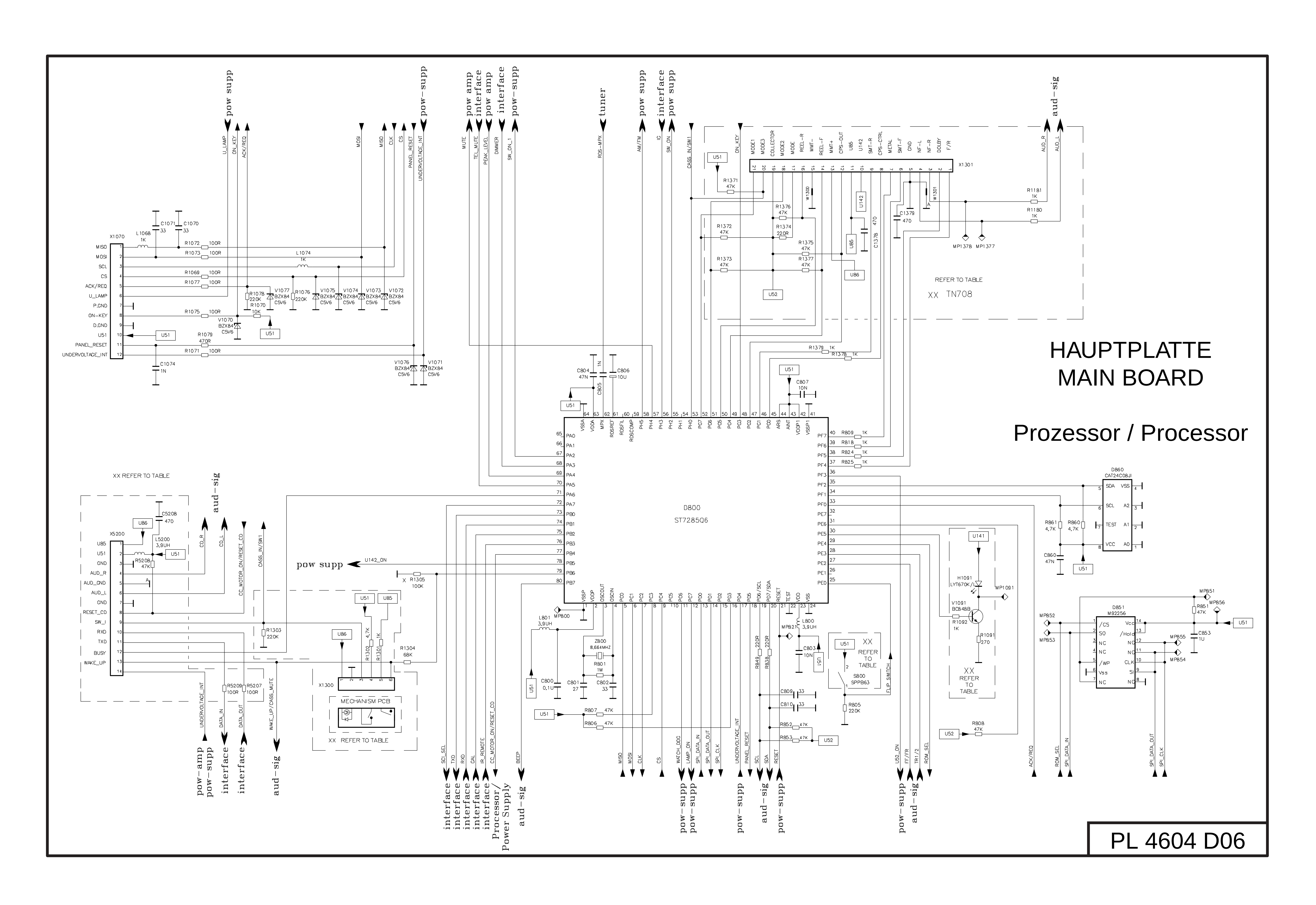


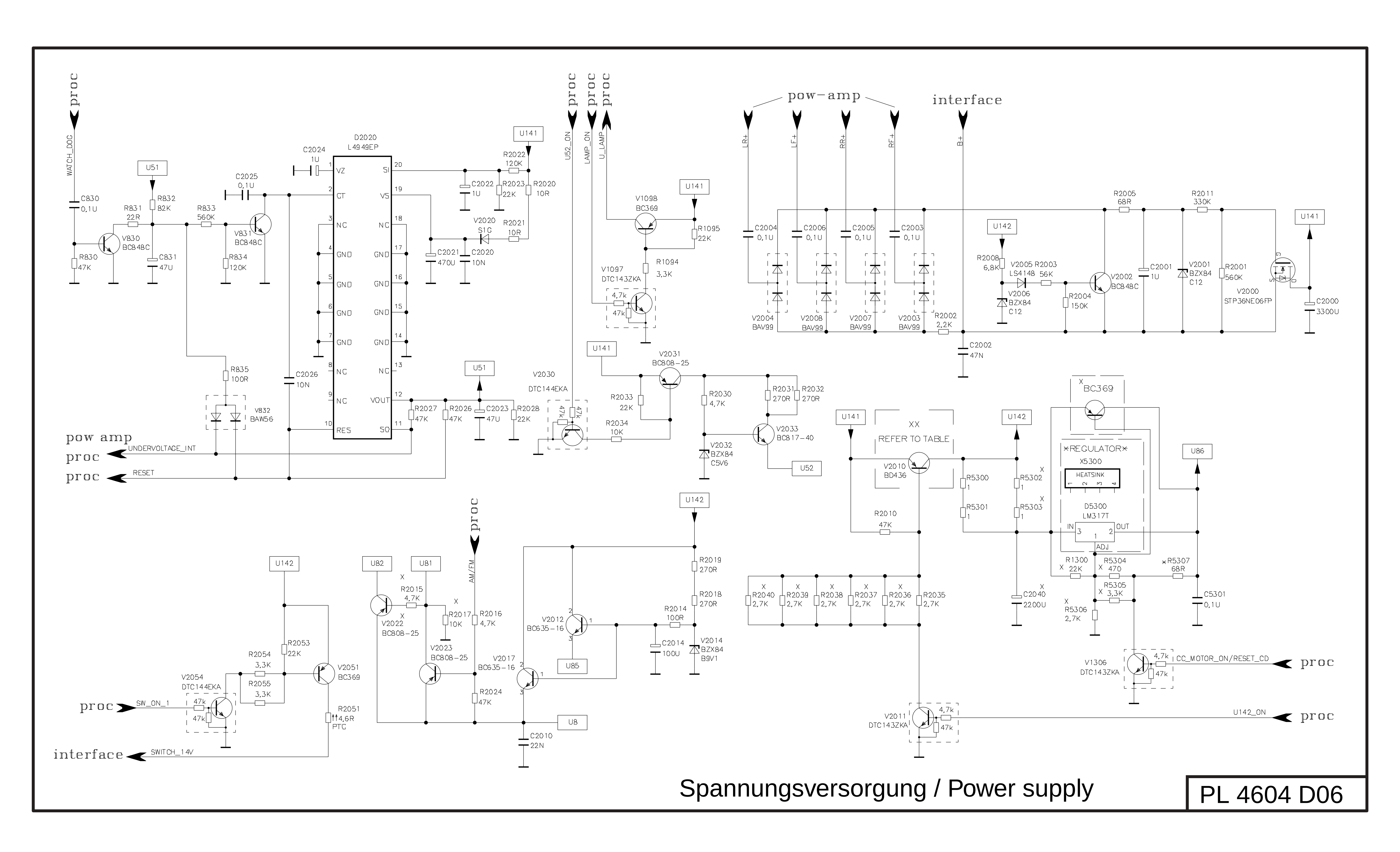
HAUPTPLATTE
MAIN BOARD
Blockschaltbild
Block diagram
SW_ON
MUTE
PEAK_LEVEL
TUNER
EMPFAENGER
AUD-SIG-PROC
AUD-SIG-VERARB
PROCESSOR
PROZESSOR
RDS-MPX
F-REF
AF-SAMPLE
AF-HOLD
AM-NF
RDS-MPX
FM-MPX
SDA-NICE
SCL-NICE
LEVEL
AUDIO-SIGNAL-PROCESSING
AUD-SIGNAL-VERARBEITUNG
POWER-AMPLIFIER
AUDUO-ENDSTUFE
LF
LR
RF
RR
INTERFACE
SCHNITTSTELLE
AUD_L
AUD_R
CD_L
CD_R
FF/FR
SCL
SDA
TR1/2
WAKE_UP/CASS_MUTE
BEEP
AUX_L
AUX_R
TEL_AF-
TEL_AF+
POWER AMPLIFIER
AUDIO-ENDSTUFE
POWER-SUPPLY
STROMVERSORGUNG
RR+
RF+
LR+
LF+
UNDERVOLTAGE_INT
LF+
LF-
LF_OUT
LR+
LR-
LR_OUT
RF+
RF-
RF_OUT
RR+
RR-
RR_OUT
AUD-SIG-PRO
AUDIO-ENDSTUFE
INTERFACE
SCHNITTSTELLE
TXD
TEL_MUTE
SCI_SEL
RXD
IR_REMOTE
IC
CAL
DATA_OUT
DATA_IN
DIMMER
POWER - SUPPLY
B+
SWITCH_14V
PROCESSOR
PROZESSOR
PEAK_LEVEL
AUDIO - ENDSTUFE
CC_MOTOR_ON/RESET_CD
WATCH_DOG
SW_ON_1
U_LAMP
U52_ON
U142_ON
RESET
LAMP_ON
AM/FM
POWER-SUPPLY
STROMVERSORGUNG
ENDSTUFE
PL 4604 D06

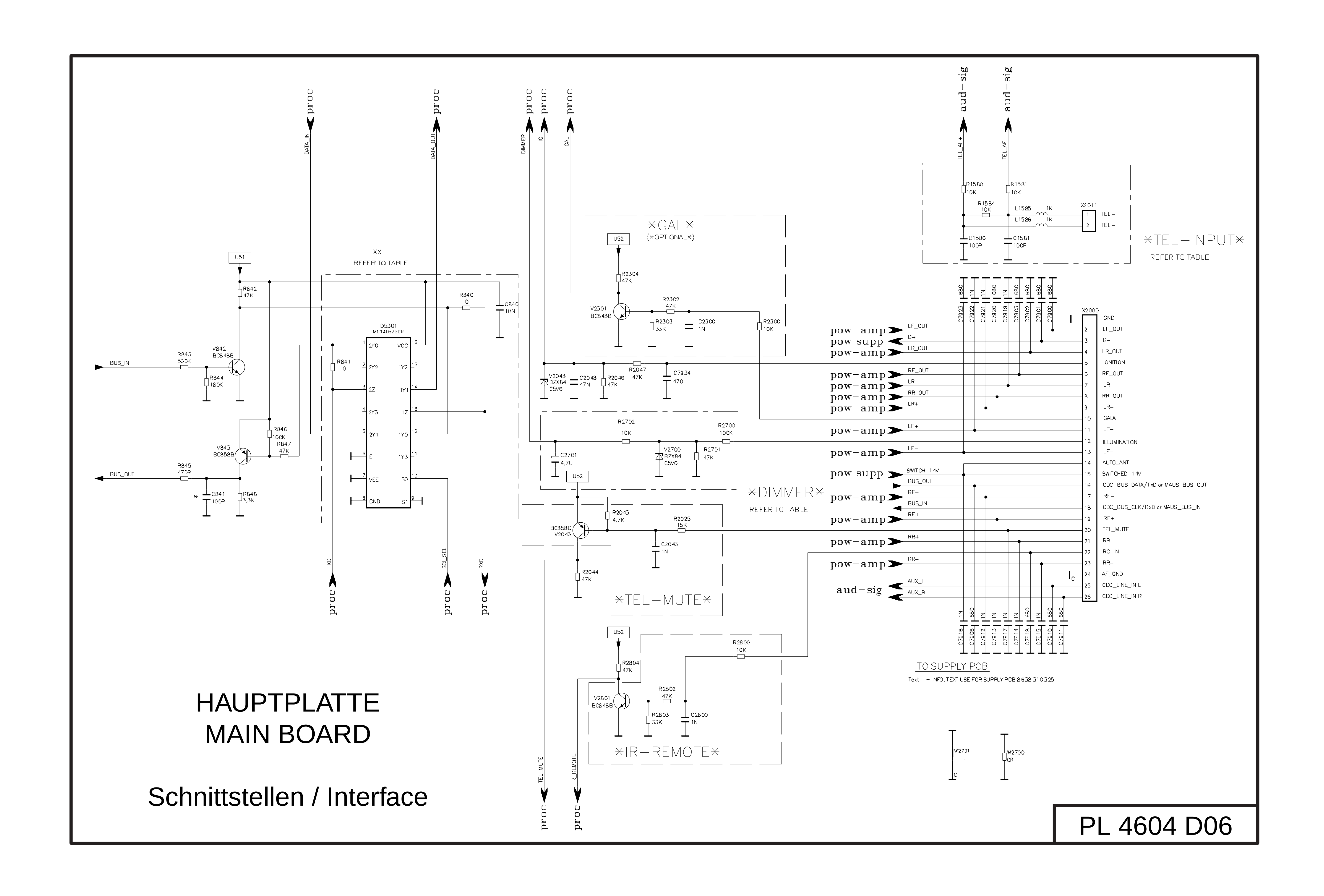

AMPLIFIER
VOLUME LEVEL DETECTOR
D1600
TDA7375A
D1601
TDA7375A
** 4-CHANNEL
aud sig
aud sig
aud sig
aud sig
interface
interface/pow-supp
proc
UNDERVOLTAGE_INT
MUTE
RF_OUT
RR_OUT
LR_OUT
LF_OUT
SW_ON
PEAK_LEVEL
Audio-Endstufe / Power amplifier
PL 4604 D06


HAUPTPLATTE
MAIN BOARD
Tuner
NICE / CASP
PHANTOMSPEISUNG
nicht bestueckt
× nicht bestueckt
PL 4604 D06
D100
TEA6845H

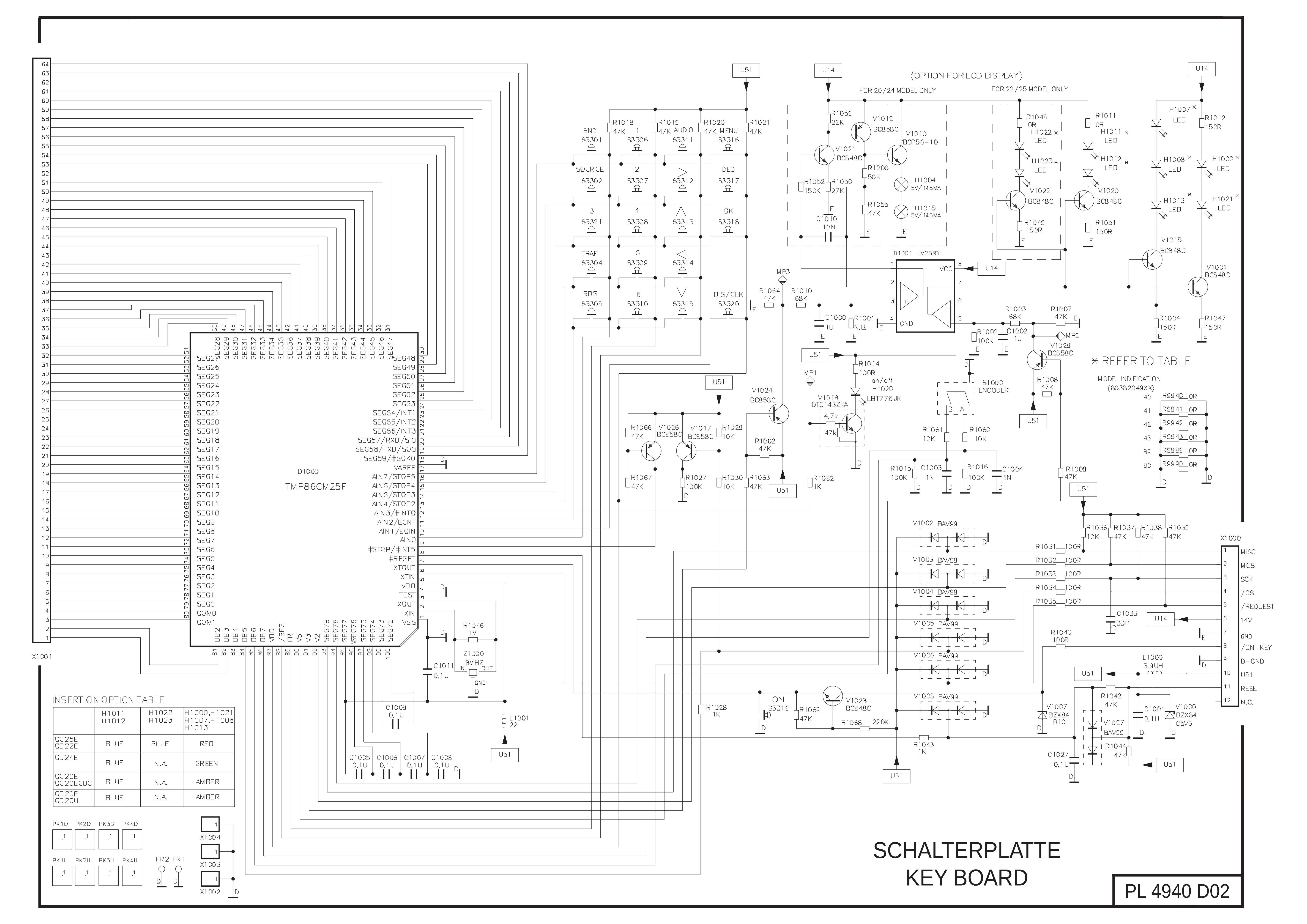

HAUPTPLATTE
MAIN BOARD
Audio Signal Verarbeitung / Audio signal processing
CASSETTE PREAMP REFER TO TABLE
CD BUFFER REFER TO TABLE
AM NOISE BLANKER
CASP
D300
TEA6880H
Tel input
REFER TO TABLE
pow-amp
tuner
proc
interface
CD/CC interface
TAPE HEAD PCB
CASS-MUTE
* nicht bestueckt
PL 4604 D06


HAUPTPLATTE
MAIN BOARD
Prozessor / Processor
D800
ST72856Q6
X1301
XX TN708
REFER TO TABLE
X1070
X5200
XX REFER TO TABLE
X1300
MECHANISM PCB
XX REFER TO TABLE
D860
CAT24C08JI
D851
M92256
pow supp
pow-supp
interface
pow amp
tuner
aud-sig
Processor/
Power Supply
PL 4604 D06


proc
pow-amp
interface
D2020
L4949EP
pow amp
proc
proc
UNDERVOLTAGE_INT
RESET
WATCH_DOG
U52_ON
LAMP_ON
U_LAMP
LR+
LF+
RR+
RF+
B+
REFER TO TABLE
REGULATOR
X5300
HEATSINK
D5300
LM317T
CC_MOTOR_ON/RESET_CD
U142_ON
SW_ON_1
SWITCH_14V
AM/FM
Spannungsversorgung / Power supply
PL 4604 D06

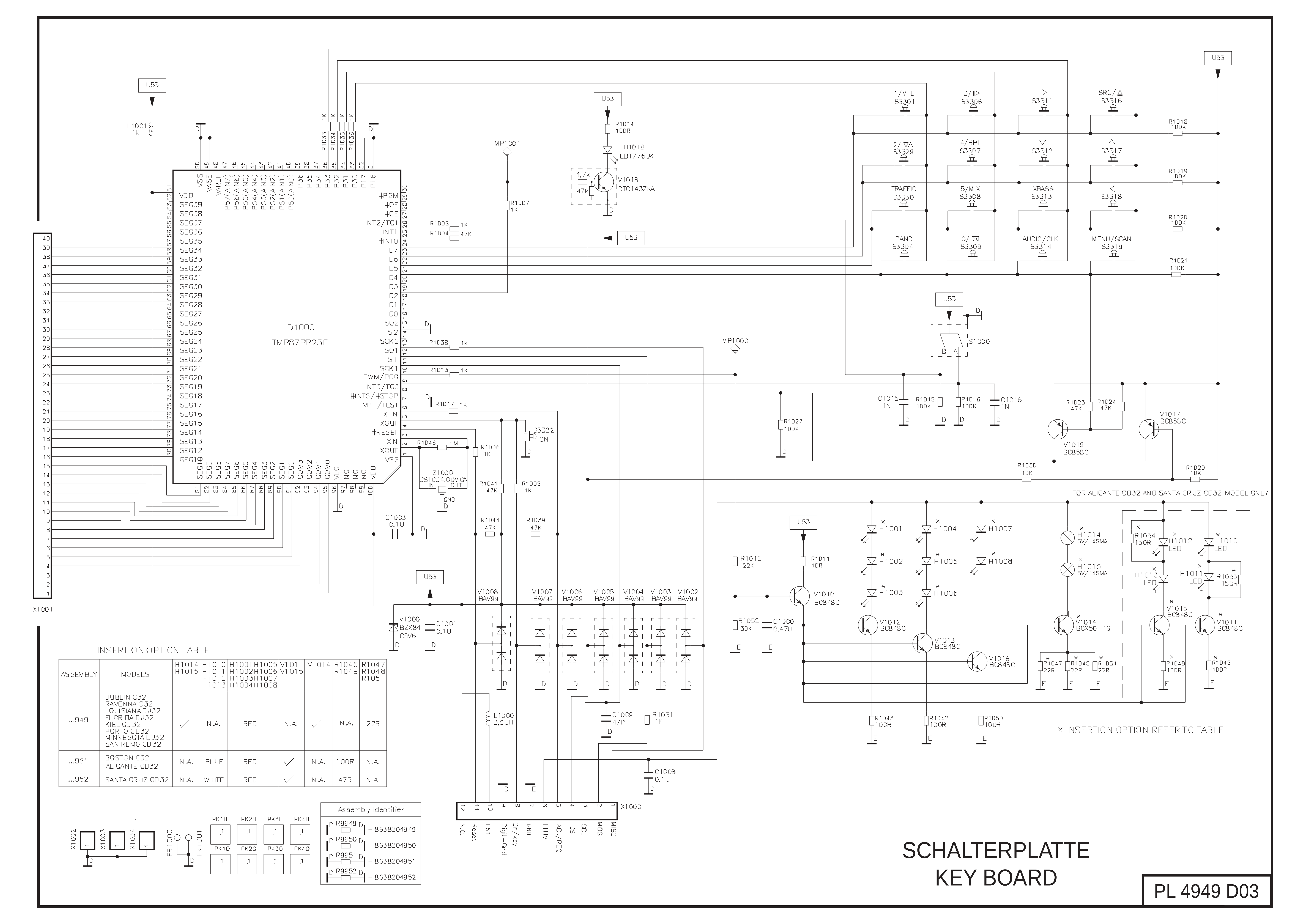


HAUPTPLATTE
MAIN BOARD
Schnittstellen / Interface
PL 4604 D06
GAL
(*OPTIONAL*)
TEL-INPUT
REFER TO TABLE
DIMMER
REFER TO TABLE
TEL-MUTE
IR-REMOTE
XX
REFER TO TABLE
D5301
MC14052BDR
X2000
X2011
TO SUPPLY PCB
Text = INFO. TEXT USE FOR SUPPLY PCB 8 638 310 325



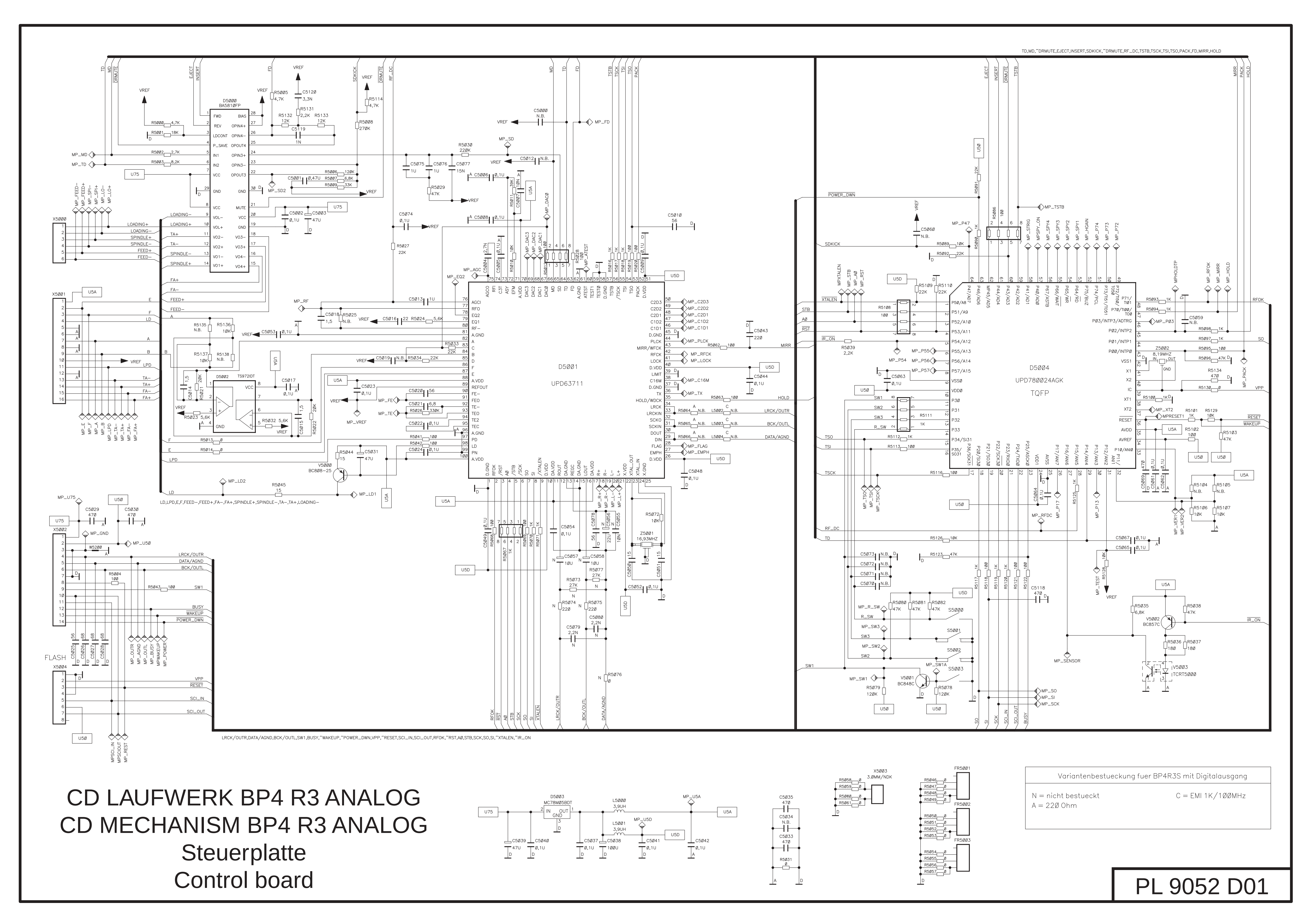
INSERTION OPTION TABLE

	H1011 H1012	H1022 H1023	H1000,H1021 H1007,H1008 H1013
CC25E CC22E	BLUE	BLUE	RED
CD24E	BLUE	N.A.	GREEN
CC20E CC20ECDC	BLUE	N.A.	AMBER
CD20E CD20U	BLUE	N.A.	AMBER

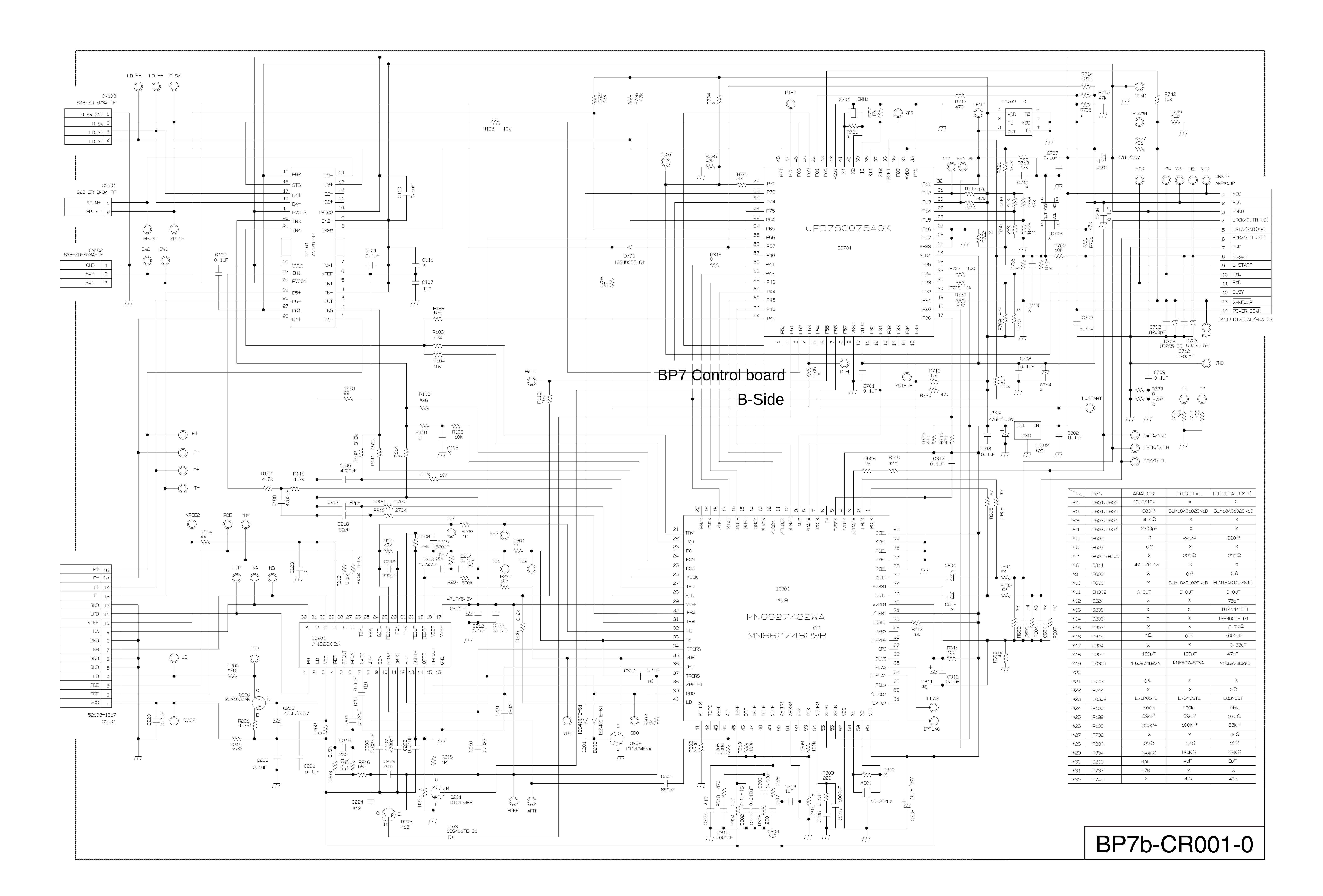


INSERTION OPTION TABLE

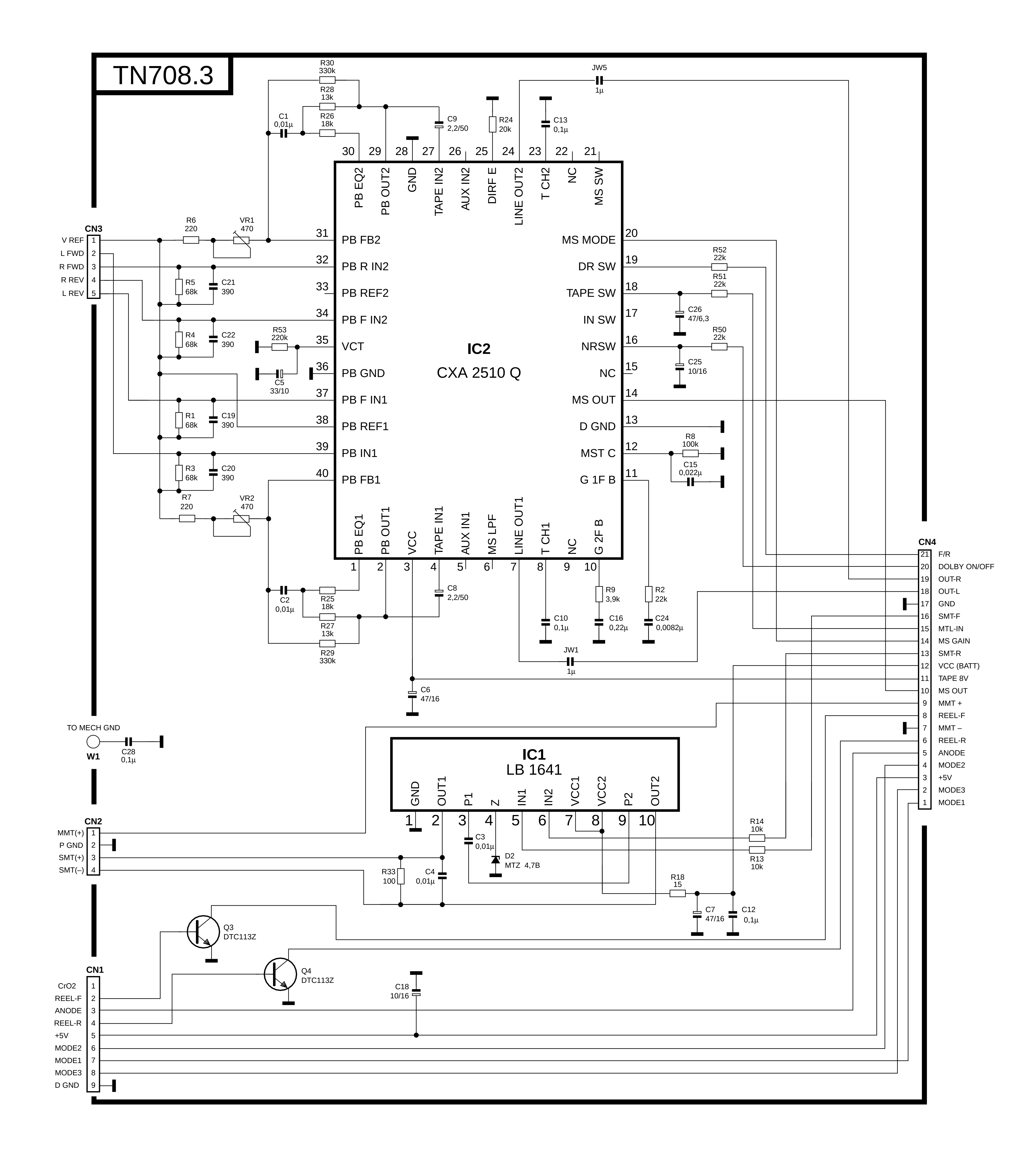
ASSEMBLY	MODELS	H1014 H1015	H1010 H1011 H1012 H1013	H1001 H1005 H1002 H1006 H1003 H1007 H1004 H1008	V1011 V1015	V1014	R1045 R1049	R1047 R1048 R1051
...949	DUBLIN C32 RAVENNA C32 LOUISIANA DJ32 FLORIDA DJ32 KIEL CD32 PORTO CD32 MINNESOTA DJ32 SAN REMO CD32	✓	N.A.	RED	N.A.	✓	N.A.	22R
...951	BOSTON C32 ALICANTE CD32	N.A.	BLUE	RED	✓	N.A.	100R	N.A.
...952	SANTA CRUZ CD32	N.A.	WHITE	RED	✓	N.A.	47R	N.A.



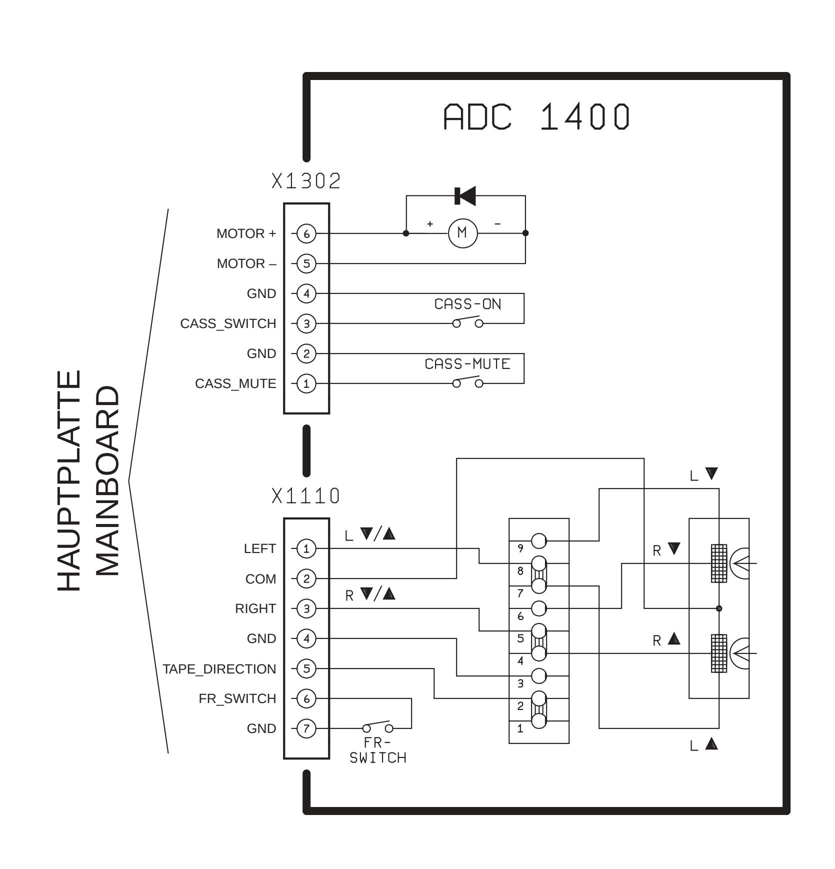
TD,MD,~DRMUTE,EJECT,INSERT,SDKICK,~DRMUTE,RF_DC,TSTB,TSCK,TSI,TSO,PACK,FD,MIRR,HOLD
D5000
BA5810FP
D5001
UPD63711
D5002
TS972IDT
D5004
UPD780024AGK
TQFP
D5003
MC78M05BDT
V5000
BC808-25
V5001
BC848C
V5002
BC857C
V5003
TCRT5000
Z5001
16,93MHZ
Z5002
8,19MHZ
X5000
X5001
X5002
X5003
3,0MM/NDK
X5004
FLASH
FR5001
FR5002
FR5003
LD,LPD,E,F,FEED-,FEED+,FA-,FA+,SPINDLE+,SPINDLE-,TA-,TA+,LOADING-
LRCK/OUTR,DATA/AGND,BCK/OUTL,SW1,BUSY,~WAKEUP,~POWER_DWN,VPP,~RESET,SCI_IN,SCI_OUT,RFOK,~RST,A0,STB,SCK,SO,SI,~XTALEN,~IR_ON
Variantenbestueckung fuer BP4R3S mit Digitalausgang
N = nicht bestueckt
A = 220 Ohm
C = EMI 1K/100MHz
CD LAUFWERK BP4 R3 ANALOG
CD MECHANISM BP4 R3 ANALOG
Steuerplatte
Control board
PL 9052 D01



	Ref.	ANALOG	DIGITAL	DIGITAL(X2)
*1	C601, C602	10uF/10V	X	X
*2	R601, R602	680Ω	BLM18AG102SN1D	BLM18AG102SN1D
*3	R603, R604	47KΩ	X	X
*4	C603, C604	2700pF	X	X
*5	R608	X	220Ω	220Ω
*6	R607	0Ω	X	X
*7	R605, R606	X	220Ω	220Ω
*8	C311	47uF/6.3V	X	X
*9	R609	X	0Ω	0Ω
*10	R610	X	BLM18AG102SN1D	BLM18AG102SN1D
*11	CN302	A_OUT	D_OUT	D_OUT
*12	C224	X	X	75pF
*13	Q203	X	X	DTA144EETL
*14	D203	X	X	1SS400TE-61
*15	R307	X	X	2.7KΩ
*16	C315	0Ω	0Ω	1000pF
*17	C304	X	X	0.33uF
*18	C209	120pF	120pF	47pF
*19	IC301	MN6627482WA	MN6627482WA	MN6627482WB
*20				
*21	R743	0Ω	X	X
*22	R744	X	X	0Ω
*23	IC502	L78M05TL	L78M05TL	L88M33T
*24	R106	100k	100k	56k
*25	R199	39kΩ	39kΩ	27kΩ
*26	R108	100kΩ	100kΩ	68kΩ
*27	R732	X	X	1kΩ
*28	R200	22Ω	22Ω	10Ω
*29	R304	120KΩ	120KΩ	82KΩ
*30	C219	4pF	4pF	2pF
*31	R737	47k	X	X
*32	R745	X	47k	47k



TN708.3
IC2
CXA 2510 Q
IC1
LB 1641
CN1
CN2
CN3
CN4
TO MECH GND
W1


ADC 1400
X1302
MOTOR +
MOTOR –
GND
CASS_SWITCH
GND
CASS_MUTE
M
+
-
CASS-ON
CASS-MUTE
HAUPTPLATTE
MAINBOARD
X1110
LEFT
COM
RIGHT
GND
TAPE_DIRECTION
FR_SWITCH
GND
L ▼/▲
R ▼/▲
FR-
SWITCH
L ▼
R ▼
R ▲
L ▲

ANSCHLUSSPLATTE
CONNECTOR BOARD

ZUR HAUPTPLATTE
TO MAIN–PCB

X2001

Pin	Signal
1	GND
2	LF_OUT
3	B+
4	LR_OUT
5	IGNITION
6	RF_OUT
7	–LR
8	RR_OUT
9	+LR
10	GALA
11	+LF
12	ILLUMINATION
13	–LF
14	AUTO_ANT
15	14V_SWITCHED
16	CDC_BUS_DATA/TXD or MAUS_BUS_OUT
17	–RF
18	CDC_BUS_CLK/RXD or MAUS_BUS_IN
19	+RF
20	TEL_MUTE
21	+RR
22	RC_IN
23	–RR
24	AF_GND
25	CDC_LINE_IN L
26	CDC_LINE_IN R

F2000
10A

MPMB_OUT

MPMB_IN

X2050 (A III)

Pin	Signal
8	GND
7	IGNITION
6	ILLUMINATION
5	AUTO_ANT
4	PERMANENT PLUS
3	N/C
2	TELEPHONE–MUTE
1	GALA

X2040 (B II)

Pin	Signal
1	+RR
2	–RR
3	+RF
4	–RF
5	+LF
6	–LF
7	+LR
8	–LR

X2030 (C–1 I–1, C–2 I–2, C–3 I–3)

Pin	Signal
1	LINE–OUT LR
2	LINE–OUT RR
3	LINE–OUT GND
4	LINE–OUT LF
5	LINE–OUT RF
6	14V–SWITCHED
7	TEL AF+
8	TEL AF–
9	TELEPHONE–MUTE
10	14V–SWITCHED
11	REMOTE CONTROL–IN
12	REMOTE CONTROL–GND
13	CDC DATA–IN
14	CDC DATA–OUT
15	CDC B+
16	14V–SWITCHED
17	CDC DATA–GND
18	CDC AF–GND/AUX1–GND
19	CDC AF–L/AUX1 AF–L
20	CDC AF–R/AUX1 AF–R

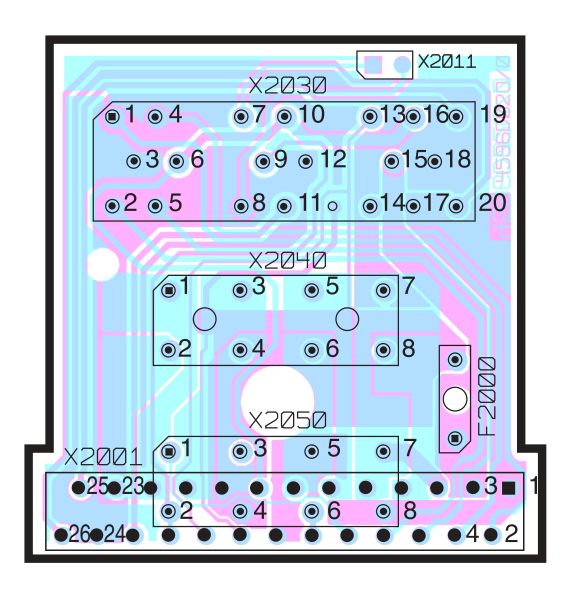
X2011

Pin	Signal
2	TEL AF–
1	TEL AF+

PL 4596 D02

Anschlußplatte
Connector board
PL 8 638 214 596 D02





ANSCHLUSSPLATTE
CONNECTOR BOARD

ZUR HAUPTPLATTE ← TO MAIN–PCB

(TO X2000) X2001

Pin	Signal
1	GND
2	LF_OUT
3	B+
4	LR_OUT
5	IGNITION
6	RF_OUT
7	–LR
8	RR_OUT
9	+LR
10	GALA
11	+LF
12	ILLUMINATION
13	–LF
14	AUTO_ANT
15	14V_SWITCHED
16	CDC_BUS_DATA/TXD or MAUS_BUS_OUT
17	–RF
18	CDC_BUS_CLK/RXD or MAUS_BUS_IN
19	+RF
20	TEL_MUTE
21	+RR
22	RC_IN
23	–RR
24	AF_GND
25	CDC_LINE_IN L
26	CDC_LINE_IN R

F2000 10A

MPMB_OUT

MPMB_IN

X2050 (A III)

Pin	Signal
8	GND
7	IGNITION
6	ILLUMINATION
5	AUTO_ANT
4	PERMANENT PLUS
3	N/C
2	TELEPHONE–MUTE
1	GALA

X2040 (B II)

Pin	Signal
1	+RR
2	–RR
3	+RF
4	–RF
5	+LF
6	–LF
7	+LR
8	–LR

X2030 (C–1 I–1, C–2 I–2, C–3 I–3)

Pin	Signal
1	LINE–OUT LR
2	LINE–OUT RR
3	LINE–OUT GND
4	LINE–OUT LF
5	LINE–OUT RF
6	14V–SWITCHED
7	N/C
8	N/C
9	N/C
10	14V–SWITCHED
11	REMOTE CONTROL–IN
12	REMOTE CONTROL–GND
13	CDC DATA–IN
14	CDC DATA–OUT
15	CDC B+
16	14V–SWITCHED
17	CDC DATA–GND
18	CDC AF–GND/AUX1–GND
19	CDC AF–L/AUX1 AF–L
20	CDC AF–R/AUX1 AF–R

PL 3275 D01

Anschlußplatte
Connector board
PL 8 638 213 275 D01



